

SEQUENCE LISTING

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<110> DEPERTHES, DAVID
      CLOUTIER, SYLVAIN
      MACH, JEAN-PIERRE
      HOLLER, NILS
      FATTAH, OMAR
<120> PEPTABODY FOR CANCER TREATMENT
<130> KZI-002US
<140> 10/551,977
<141> 2005-10-04
<150> PCT/IB04/001049
<151> 2004-04-05
<150> 60/460,490
<151> 2003-04-04
<160> 37
<170> PatentIn Ver. 3.3
<210> 1
<211> 417
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cagatgctgc gtgaactgca ggaaaccaac gctgctctgc aggacgttcg tgactacctg 120
cgtcagctgg ttcgtgaaat caccttcctg aaaaacaccg ttatggaatg cgacgcttgc 180
ggtatgcagc agactagtcc gcctactccg ccaactccgt ctccgtctac tccgccaact 240
ccgtctccga gatccaattc tgactctgaa tgcccattgt ctcacgacgg ttactgcttg 300
cacgacggtg tttgcatgta catcgaagct ctggacaaat acgcttgcaa ctgcgttgtt 360
ggttacatcg gtgaacgttg ccaataccga gatctgaaat ggtgggaact gcgttaa
<210> 2
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Asp Leu Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr Phe Leu Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln Thr Ser Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr 75 Pro Ser Pro Arg Ser Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp 105 Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg 135 <210> 3 <211> 333 <212> DNA <213> Artificial Sequence <220> <223> Description of Artificial Sequence: Synthetic peptabody GBP: MDP03 <400> 3 atgtataget ttgaagatet ggetageeat cateateace ateatggaga cetgggeeeg 60 cagatgetge gtgaactgca ggaaaccaac getgetetge aggaegtteg tgactacetg 120 cgtcagctgg ttcgtgaaat caccttcctg aaaaacaccg ttatggaatg cgacgcttgc 180 ggtatgcagc agactagtcc gcctactccg ccaactccgt ctccgtctac tccgccaact 240 ccgtctccga gatctgaaaa cttttccggc ggctgcgtgg cgggctatat gcgtaccccg 300 gatggccgtt gcaaaccgac cttttatcag taa <210> 4 <211> 110 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptabody GBP: MDP03

<400> 4

Met Tyr Ser Phe Glu Asp Leu Ala Ser His His His His His Gly
1 5 10 15

Asp Leu Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala 20 25 30

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Leu Gln Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr
                              40
Phe Leu Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln
Thr Ser Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr
Pro Ser Pro Arg Ser Glu Asn Phe Ser Gly Gly Cys Val Ala Gly Tyr
Met Arg Thr Pro Asp Gly Arg Cys Lys Pro Thr Phe Tyr Gln
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<210> 5
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Tyr Ser Phe Glu
<210> 6
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Tyr Ser Phe Glu Asp Leu
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Tyr Ser Phe Glu Asp Leu Tyr
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<210> 9
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      peptide
<400> 9
Tyr Ser Phe Glu Asp Leu Tyr Arg Arg
                  5
<210> 10
<211> 23
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<213> Pseudoplusia includens
Glu Asn Phe Asn Gly Gly Cys Leu Ala Gly Tyr Met Arg Thr Ala Asp
Gly Arg Cys Lys Pro Thr Phe
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<210> 11
<211> 25
<212> PRT
<213> Spodoptera litura
Glu Asn Phe Ser Gly Gly Cys Val Ala Gly Tyr Met Arg Thr Pro Asp
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Gly Arg Cys Lys Pro Thr Phe Tyr Gln
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 <213> Mamestra brassicae
  <400> 12
 Glu Asn Phe Ala Ala Gly Cys Ala Thr Gly Tyr Gln Arg Thr Ala Asp
 Gly Arg Cys Lys Pro Thr Phe
 <210> 13
 <211> 23
 <212> PRT
 <213> Spodoptera eridania
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 Glu Asn Phe Ala Gly Gly Cys Ala Thr Gly Tyr Leu Arg Thr Ala Asp
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 Gly Arg Cys Lys Pro Thr Phe
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 <210> 14
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 <213> Manduca sexta
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Glu Asn Phe Ala Gly Gly Cys Ala Ala Gly Tyr Leu Arg Thr Ala Asp
 Gly Arg Cys Lys Pro Thr Phe
 <210> 15
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 <400> 15
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 Gly Arg Cys Lys Pro Thr Phe
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 <213> Heliothis virescens
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  Gly Arg Cys Lys Pro Thr Tyr
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<213> Trichoplusia ni
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 <210> 20
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 <212> PRT
 <213> Antheraea yamamai
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 Gly Arg Cys Lys Pro Thr Phe
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<213> Spodoptera eridania
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Gly Arg Cys Lys Pro Thr Phe
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<210> 22
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<212> PRT
<213> Spodoptera eridania
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Gly Arg Cys Lys Ala Thr Phe
             20
<210> 23
<211> 23
<212> PRT
<213> Spodoptera eridania
<400> 23
Glu Asn Phe Ala Gly Gly Cys Thr Pro Gly Tyr Gln Arg Thr Ala Asp
Gly Arg Cys Lys Pro Thr Phe
             20
<210> 24
<211> 23
<212> PRT
<213> Spodoptera eridania
<400> 24
Glu Asn Phe Val Gly Gly Cys Thr Pro Gly Tyr Gln Arg Thr Ala Asp
Gly Arg Cys Lys Pro Thr Phe
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<210> 25
<211> 50
<212> PRT
<213> Homo sapiens
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<400> 25

Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe Cys 1 5 10 15

Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala Cys 20 25 30

Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp Leu 35 40 45

Leu Ala 50

<210> 26

<211> 84

<212> PRT

<213> Homo sapiens

<400> 26

Ser Val Arg Val Glu Gln Val Val Lys Pro Pro Gln Asn Lys Thr Glu $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$

Ser Glu Asn Thr Ser Asp Lys Pro Lys Arg Lys Lys Lys Gly Gly Lys 20 25 30

Asn Gly Lys Asn Arg Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala 35 40 45

Glu Phe Gln Asn Phe Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His 50 55 60

Leu Glu Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg 65 70 75 80

Cys Gly Glu Lys

<210> 27

<211> 86

<212> PRT

<213> Homo sapiens

<400> 27

Asp Leu Gln Glu Ala Asp Leu Asp Leu Leu Arg Val Thr Leu Ser Ser $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Lys Pro Gln Ala Leu Ala Thr Pro Asn Lys Glu Glu His Gly Lys Arg \$20\$ \$25\$ 30

Lys Lys Gly Lys Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg 35 40 45

Lys Tyr Lys Asp Phe Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu 50 60

Leu Arg Ala Pro Ser Cys Ile Cys His Pro Gly Tyr His Gly Glu Arg 65 70 75 80

Cys His Gly Leu Ser Leu 85

<210> 28

<211> 80

<212> PRT

<213> Homo sapiens

<400> 28

Asp Gly Asn Ser Thr Arg Ser Pro Glu Thr Asn Gly Leu Leu Cys Gly 1 5 10 15

Asp Pro Glu Glu Asn Cys Ala Ala Thr Thr Thr Gln Ser Lys Arg Lys
20 25 30

Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys 50 . 55 60

Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp Leu Phe Tyr 65 70 75 80

<210> 29

<211> 50

<212> PRT

<213> Homo sapiens

<400> 29

Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys 1 5 10 15

Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys 20 25 30

Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp Leu 35 40 45

Phe Tyr

<210> 30

<211> 5

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 30

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<210> 31

<211> 83

<212> PRT

<213> Homo sapiens

<400> 31

Met Tyr Ser Phe Glu Asp Leu His His His His His Gly Asp Leu 1 5 10 15

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20 25 30

Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr Phe Leu $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln Thr Ser 50 55 60

Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr Pro Ser 65 70 75 80

Pro Arg Ser

<210> 32

<211> 136

<212> PRT

<213> Homo sapiens

<400> 32

Met Tyr Ser Phe Glu Asp Leu His His His His His Gly Asp Leu 1 5 10 15

Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln 20 25 30

Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr Phe Leu 35 40 45

Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln Thr Ser 50 55 60

Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr Pro Ser 65 70 75 80

Pro Arg Ser Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly His 85 90 95

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr 105 Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg 120 Asp Leu Lys Trp Trp Glu Leu Arg <210> 33 <211> 258 <212> DNA <213> Homo sapiens <400> 33 atgtataget ttgaagatet ggetageeat cateateace ateatggaga eetgggeeeg 60 cagatgctgc gtgaactgca ggaaaccaac gctgctctgc aggacgttcg tgactacctg 120 cgtcagctgg ttcgtgaaat caccttcctg aaaaacaccg ttatggaatg cgacgcttgc 180 ggtatgcagc agactagtcc gcctactccg ccaactccgt ctccgtctac tccgccaact 240 ccgtctccga gatcttaa <210> 34 <211> 85 <212> PRT <213> Homo sapiens Met Tyr Ser Phe Glu Asp Leu Ala Ser His His His His His Gly 5 Asp Leu Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr 40 Phe Leu Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln Thr Ser Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr 75 Pro Ser Pro Arg Ser 85 <210> 35 <211> 5 <212> PRT <213> Artificial Sequence <223> Description of Artificial Sequence: Synthetic

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<223> Description of Artificial Sequence: Synthetic
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Phe Glu Asp Leu
<210> 37
<211> 6
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
     peptide
<400> 37
His His His His His
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